

**INDIVIDUAL HISTORY****DE HAVILLAND MOSQUITO B.35 TA639/7806M****MUSEUM ACCESSION NUMBER: 67/A/595**

1945	Constructed by de Havilland's at Hatfield to contract No.555 for 80 Mosquito B.35 aircraft, serial numbers TA617-8, TA633-70, TA685-724, delivered 29 Mar 45 - 16 Jul 45. Merlin 113/114 engines.
13 Apr 45	To No.27 MU Shawbury, Salop for storage.
19 May 52	Taken out of store and sent to Brooklands Aviation Ltd, Sywell, Northants for conversion to Target Tug standard as a Mosquito TI35 - one of those aircraft fitted with the under fuselage mounted ML type G wind-driven target winch. (Photo: Mosquito Crash Log). One of 146 Mosquito B.35 aircraft converted to target tugs 1951-54.
30 Sep 52	Work completed.
17 Oct 52	To station flight, RAF Ballykelly, Londonderry, Northern Ireland -sharing the airfield with two Shackleton squadrons.
05 Dec 52	To RAF Aldergrove Target Towing Flight, Antrim, Northern Ireland. Shared the base with Shackletons and No.502 Squadrons' Vampires. Generally flew along the County Down coast at 7000ft to the mouth of Strangford Lough.
28 May 54	Observer's Logbook of SAC J.S. Urquhart (Extracts on file) records 15 minute local flight, pilot F/Sgt 'Joe' Radwanski.
2 Jun 54	20-minute air test, pilot Radwanski – Urquhart logbook.
11 Jun 54	Pilot's logbook of Fg Off (Later Flt Lt) David L Rolston (X002-6233) records 15-minute air-air firing sortie. Also noted in Urquhart logbook.
17 Jun 54	Rolston and Urquhart logbooks record 1.10hr air-air firing sortie.
23 Jun 54	30-minute air firing sortie, pilot Radwanski – Urquhart logbook.
28 Jun 54	30-minute Fighter affiliation sortie, pilot Radwanski – Urquhart logbook.
1 Jul 54	40-minute air firing sortie, pilot Radwanski – Urquhart logbook.
2 Jul 54	One-hour air-firing sortie, pilot Radwanski – Urquhart logbook.
8 Jul 54	Rolston logbook records one-hour circuits and local flight, with Urquhart logbook also recording a 1.15 hour general handling flight on the same day, pilot Radwanski.
18 Aug 54	35-minute air-firing sortie, pilot Radwanski, Urquhart logbook.

20 Aug 54	1.20hr air firing sortie, pilot Radwanski, Urquhart logbook.
25 Aug 54	Rolston logbook records one hour circuits, landings, and local flying flight.
30 Aug 54	2.15hr air firing sortie, pilot Radwanski, Urquhart logbook.
7 Sep 54	1.15hr affiliation and air to air firing flight, pilot Radwanski, Urquhart logbook.
8 Sep 54	Rolston logbook records 1.05hr fighter affiliation flight.
10 Sep 54	1.15hr air firing sortie, pilot Radwanski, Urquhart logbook.
13 Sep 54	45-minute fighter affiliation flight, pilot Radwanski, Urquhart logbook.
20 Sep 54	50-minute air firing sortie, pilot Radwanski, Urquhart logbook, followed by 1.30hr affiliation flight with same crew.
22 Sep 54	Rolston logbook records half-hour drogue streaming flight.
5 Oct 54	Two-hour fighter affiliation flight, pilot Radwanski, Urquhart logbook.
5 Dec 54	40-minute air test, pilot Radwanski, Urquhart logbook.
16 Dec 54	To No.38 MU Llandow for storage.
10 Jan 57	To No.27 MU Shawbury for further storage.
21 Apr 58	Last major inspection - had flown only 105.55 hours since new. This and other details taken from the aircraft's Form 700s - 13 of them - covering the period 23 Sep 59 - 23 Jan 67 held by DoRIS Ref.B3216. Also under this reference are engine and propeller history cards and other servicing documents for TA639.
24 Sep 59	Flown by Flt Lt. Curtis, made 55 minute Flight on delivery to No.3 Civilian Anti-Aircraft Co-operation Unit (CAACU) at Exeter Airport. This civilian manned but Air Ministry equipped unit exercised the guns for all three services from Portland to Cardigan Bay, and further afield during big exercises the Mosquitos' 4½-5 hour endurance taking them as far as Scotland. TA639 carried the fuselage code '55' with the unit. Photo: 'Guardian' newspaper 16 Jun 89. Painted silver overall, yellow/black target-tug stripes were worn on the wing undersides.
05 Nov 59	Piloted by Harry Ellis, Chief pilot of No.3 CAACU, with Pete Howland as his winch operator ('TTO') TA639 made a two hour flight to the Army's' School of Anti-Aircraft Artillery at Manorbier, Pembrokeshire, flying a low-level drogue towing sortie.

The unit also provided local support for the Naval Gunnery School at HMS Cambridge, near Plymouth and for ships at sea needing both visual

and radar gunnery practice, both towing drogues and making mock low-level attacks.

- 8 Jun 60      Displayed at Air Show at Exeter Airport Photos - The De Havilland Mosquito A Comprehensive guide for The Modeller (Franks) p.41; Aviation World Spring 2007 p.37. Colour photo as of 1961 – Aeroplane February 2018 pp.42-43.
- Oct 62      Originally intended as withdrawal date for the units' Mosquitoes, with replacement by Meteor TT20 aircraft from October 1961, but full conversion postponed.
- Thursday  
09 May 63      Took part in 'official last fly-past' by Mosquitos at Exeter, but suffered port engine failure at end of the flight, causing a hurried landing after 50 minutes flying. At the end the unit had two Mosquito T.3 and seven TT35 aircraft still airworthy, of which T3. TW117 and B35s, RS709, RS712, TA634, TA639 and TA719 took part in the final display.
- 20 May 63      Following engine repairs, given 25 minute test flight at Exeter.
- 21 May 63      Target-towing buffer and tail guards removed.
- 30 May 63      Formally transferred from strength of No.3 CAACU to Central Flying School, Little Rissington, Glos, as a flying display aircraft.
- 31 May 63      Formally struck off RAF charge. Had flown 547.35 hours (315 landings) since new.
- 06 Jun 63      Made a 45 minute flight to its new base at Little Rissington where it was kept airworthy although nominally allocated maintenance serial 7806M on 6<sup>th</sup> May 63 for preservation in non-flying condition, following a request from the CFS on 10<sup>th</sup> April 1963. Remaining TT equipment - consisting of drogue attachments and winch- was removed and the aircraft given a grey/green camouflage colour scheme, with silver undersides. Photo around this time – RADAR (RAFM) Issue 3 2013 p.32.
- Jun 63      Loaned to Mirisch Films Ltd for production of the film '633 Squadron' at RAF Bovingdon, Herts, as one of five airworthy and three taxiable Mosquitoes, all ex-No.3 CAACU, used in the film.
- 15 Jul 63      Following repainting into camouflage colours, flew to Bovingdon via Dishforth for filming, flown by CFS Commandant Air Commodore 'Birdy' Bird-Wilson. Nominally on charge of RAF Bovingdon Communications Squadron until loaned to the film company. Given the fictitious serial HJ682 and codes HT-B on 20<sup>th</sup> July, and modified to look like a Mosquito FBV1 by having the nose perspex painted over and possibly dummy machine guns fitted. Loan period agreed as one month from noon on 15<sup>th</sup> July 1963.
- Late July 63      Filming began around the Bovingdon Area. Photo of TA639 as 'HJ682' - 'Warbirds Worldwide' 29 and 34 p.26. When filming moved to the Scottish Lochs, based at Inverness, the RAF would not allow TA639 to

be used since the flying there was considered too dangerous. TA639 was used extensively for filming up to mid September, being at Tern Hill 14 Sep 63 (FlyPast Oct 63 - Photo).

Further photos in 1963, camouflaged as TA634; De Havilland Mosquito (Bowman 1998) p.157; Aviation News October 2004;

Little Rissington – The CFS Years (Bagshaw et al) pp.142 and 161 (Colour 1966 view with 'Property of the RAF Museum' painted on the nose).

After filming was complete TA639 returned to Little Rissington for personal/display use by the Commandant, Air Commodore Bird-Wilson, and made one display flight over the Mosquito Museum at Salisbury Hall. By Dec 1964 TA639 had flown 588.05 hours - 391 landings.

The allocation originally stated 'it will only be held at C.F.S with the firm proviso that it must be made 'Cat Museum' on arrival!' – to which on 25 April 1963 Bird-Wilson added the comment 'Like Hell!' - spares were available and one engine had only done 50 hours.

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| 26 Jun 65 | Recorded display flight at Exeter Air Day – not in flight record, however. See 'Flying Film Stars' (Ashley 2014) p.193.  |
| 18 Sep 65 | Photographed at RAF Tern Hill, Shropshire for Battle of Britain air display (Photo: British Museum Aircraft). This was the aircraft's Penultimate Flight.  |
| 03 Oct 65 | Final flight - 1 hour 20 minutes; Royal Observer Corps Day display at RAF Stradishall, flown by Flt Lt C. Kirkham. Total flying hours 607.10/415 landings. The next major servicing was due at 705.55 hours. |
| 19 Nov 65 | Engines ground-run.  |
| 23 Nov 65 | Engines inhibited. At this stage, further flying was not ruled out.  |
| 17 Mar 66 | Given a glued joint inspection, the results of which ended its flying career. A loose minute of 4 April 1967 gives fascinating insights into this and the operation of the aircraft at Little Rissington:    |

'May I first submit to you that the aircraft concerned has not remained in the reported condition or been precluded from becoming fit to fly due to lack of determination on the part of myself or anyone else in engineering wing ..... may I point out that the Mosquito is Category 5 as a historical aircraft for museum use and is not authorised to fly ..... this fact ..... is known to HQ Flying Training Command where concern has been expressed on several occasions ..... Wing Commander Wahaftig ..... expressed the view that it was in some ways dangerous, certainly illegal and quite unfair to any person in engineering wing to be asked to sign documents enabling the Mosquito to be flown under existing arrangements. Broadly speaking and prior to this, HQ FTC had intimated that if the aircraft were ever flown then they did not want to hear about it ..... I shudder to think of a Board of Inquiry in the case of an accident involving this aircraft .....

The March 1966 inspection confirmed that the glued joints had deteriorated since the last inspection 4 months previously and that other joints would go if the aircraft was taxied or flown. Repairs would take 6 months, it was estimated - wing joints were loose, dry and flaky. 'Rectification is beyond unit ability and capacity to repair and is considered completely uneconomical'.

This recommendation was adhered to and the aircraft grounded permanently.

The 2006 Book 'RAF Little Rissington; The Central Flying School Years' (Bagshaw et al) records that the glue deterioration was engineered by Ground Engineering Wing staff anxious to avoid the burden of another aircraft to maintain. They placed it in Little Rissington's only heated hangar, with the tail carefully positioned under a canvas hot air duct, with the desired effect of glue failure and loss of structural integrity. Photo at Little Rissington, 1965 – Bagshaw et al p.281.

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| 05 Jul 67   | Transferred to RAF Museum Collection after Maintenance Command refused to carry out repair to flying condition.   |
| 9-10 Aug 67 | Transferred by road by No.71 MU from Little Rissington to the RAFM store at RAF Henlow.   |
| Oct 67      | The two inhibited Merlins that had seemingly been retained at Little Rissington as spares engines for this aircraft, a Merlin 113 and Merlin 114, followed the Mosquito to Henlow as 67/E/731-732; they are both presently on loan to the Derby Branch of the Rolls Royce Heritage Trust.   |
| 14 Jun 68   | Following refurbishment at 27 MU Shawbury commencing 6 December 1967 and movement of repaired fuselage to Abingdon c. 2 April 1968, displayed at RAF Abingdon for the RAF's 50th anniversary display. Photo - Air Britain Digest July 1968 p.194.   |
| Sep 68      | Displayed with other historic aircraft on Horseguards Parade, London during Battle of Britain week. Photo - Mosquito Survivors (Howe) p.105.  |
| Sep 69      | Moved to storage at RAF Cosford by this date, possibly after the Horseguards display. By the 1970s TA639 was part of the regional collection of aircraft at the Cosford Aerospace Museum, still in its mid-late 1960s applied camouflage scheme.  |
| 1988        | Repainted at Cosford in the colours and markings of the Mosquito XX of No.627 Squadron, AZ-E, in which Wing Commander Guy Gibson was killed on a pathfinder sortie 19/20 Sep 1944. It remains on display at Cosford. Photos; Aircraft Illustrated March 1991 p.145; Supplement to Aeroplane April 2001 p.13; Aviation News April 2015 p.38; Aeroplane February 2018 p.47. |

Several Mosquito B/TT35s are preserved, including fellow Hatfield batch members TA634 at the former Mosquito Aircraft Museum, now the De Havilland Aircraft Heritage Centre at London Colney, and TA719 at the IWMs' Duxford base.

**TEXT - ANDREW SIMPSON**